

FIG. 1

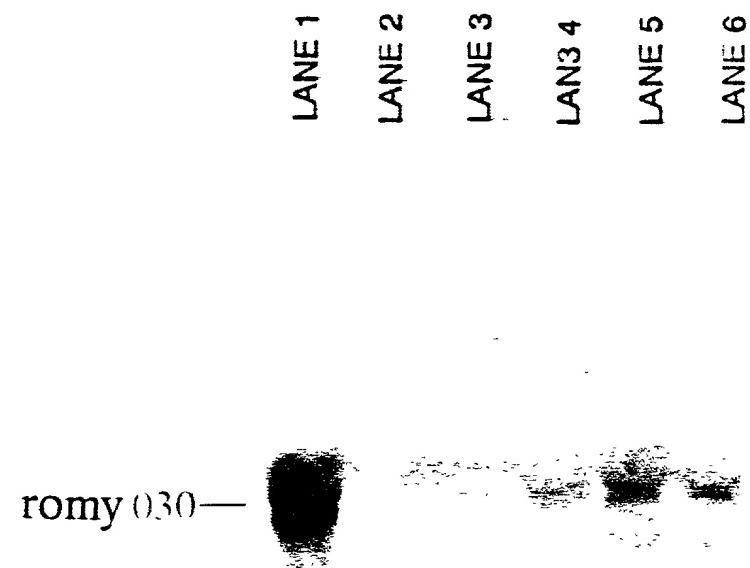


FIG. 4

romy030

(SEQ ID NO: 1)

GGTGCTGGAGTACCTCATGGGGGTGCCCTACCGCTGCAACTACACTCGGAAAAGCTTCCGGACTCT
CTACAACAACTTGGTTGGCCTTAAGGGTAGAGGCTCAGCAGACACAGTCCTGTGCCTCCC
AGAGTAACATGTGGTTCCITGATGTGCTTCCCCAAAAGCCCACCTGTGCAGAATG

FIG. 2

AGGAGGGCTAGGCTTGCA	CCCTTCCCGCTTGCTCAGGGCTAGGGCTAGAAAGCATTGGTAGAGAAGACATTTC	80
AAAAGGGAATGCTTCTTGTAAATTCCAGTACAMMAGACCCTAACAGATGTTGGCTGACTGCACAT	CCCCCTTGGCGAGTGGGCTCCAGCACAGGAGAACCAAGGACTCTTGAATTCCAGGGTACTCCAAATAAGCC	160
TG TAC ATC CGA GTC TCC TAC GAC ACC AAG CCA GAT TCC CTG CTC CAC CTC ATG GTG AAG	M Y I R V S Y D T K P D S L L H L M V K	20
GAC TGG CAG CTG GAG CTC CCG AAG CTC TRG ATA TCT GTG CAC GGA GGC CTC CAA AGC TTC	D W Q L E L P K L L I S V H G G L Q S F	40
GAG ATG CAG TCC AAA CTG AAG CAG CTC GTC TTT GGG AAA GGT CTC ATC AAG GCT GCC ATG ACC	E M Q S K L K Q V F G K G L I K A A M T	440
ACG CGG GCG TGG ATC TTC ACC CGG CCT CTG AGC ACT GGT GTC GTC AGC CAT GTG GGG GAT	T G A W I F T G G V S T G V V S H V G D	560
GCC TGG AAA GAC CAC TCC TCC AAC TCC AGA CGG CGG CTC TCT GCT ATA GGA ATT GCT CCC	A L K D H S S K S R G R L C A I G I A P	620
TGG GGC ATG GTG GAG AAC AAG GAA GAC CTC ATT CGA AAA GAT GTA ACA AGA GTC TAT CAG	W G M V E N K E D L I G K D V T R V Y Q	680
ACC ATG TCC AAC CCT CTG AGC AAG CTC TCT GTG CTC AAC ATT TCC CAC ACT CAC TTC ATC	T M S N P L S K L S V L N N S H T H F I	740
TG GCT GAC AAC GGC ACC CTG GGC AAG TAT GGT GCT GAG GTG AAG CTC CGA AGA CAG CTG	L A D N G T L G K Y G A E V K L R R Q L	800
GAA AAA CAC ATC TCC CTG CAG AAG ATC AAC ACA AGG CTG GGC CAG CGT GTA CCT GTC GIG	E K H I S L Q K I N T R L G Q G V P V V	860
GGC CTA GTG GAA GGT CCT AAC AAC CTG GTC TCT ATC GTC CTG GAG TAT CTC AAA GAA	G L V E G G P N V V S I V L E Y L K E	920
		200

FIG. 3A

٢٠١٣/٦/٢٥

GAC	CCT	GTC	CCR	GTC	GTC	GTC	GAT	GTC	GTC	GTC	GTC	AGT	GGA	GGA	CGT	GCC	TCT	GAC	ATT	TTC	TCC	980
D	P	P	V	P	V	V	C	D	G	S	G	R	A	S	D	I	L	S			220	
TTC	GCA	CAC	AAA	TAC	TGC	GAC	GAA	GGA	GTC	ATA	AAC	GAG	TCC	CTG	CGG	GAC	CAG	CTT			1040	
F	A	H	K	Y	C	D	E	G	G	V	I	N	E	S	L	R	D	Q	L		.240	
CTA	GTT	ACC	ATT	CAG	AAA	ACA	TTT	ATT	TAC	AGC	AAG	TCC	CAG	TCG	TAT	CAG	CTG	TTT	GCA		1100	
L	V	T	I	Q	K	T	F	N	Y	S	K	S	Q	S	Y	Q	L	F	A		260	
ATT	ATC	ATG	GAG	TGC	ATG	AAG	AAG	AAA	GAA	CTC	GTC	ACT	GTC	TTT	CGG	ATG	GGT	TCC	GAG		1160	
I	I	M	E	C	M	K	K	K	E	L	V	T	V	F	R	M	G	S	E		280	
CGT	CAG	CAA	GAT	GTC	GAG	ATG	GCA	ATT	TTA	ACT	GCC	CTG	CTC	AAA	GGA	ACC	AAC	GCA	TCA		1220	
G	Q	Q	D	V	E	M	A	I	L	T	A	L	L	K	G	T	N	A	S		300	
GCT	CCA	GAT	CAG	CTG	AGC	TTC	GCC	CTG	GCT	TGG	AAC	CGG	GTC	GAC	ATA	GCG	CGA	AGC	CAG		1280	
A	P	D	Q	L	S	L	A	L	A	W	N	R	V	D	I	A	R	S	Q		320	
ATC	TTC	GTC	TTT	GGC	CCA	CAC	TGG	CCG	CCA	CTG	GGA	AGC	CTG	GCC	CTT	CCT	GTC	GAC	ACC		1340	
I	F	V	F	G	P	H	W	P	P	L	G	S	L	A	P	P	V	D	T		340	
AAA	GCC	GCA	GAG	AAG	GAA	AAG	AAG	CCA	CCC	ACA	GCC	ACC	AAC	AAG	GGG	AGA	AAA	GGA		1400		
K	A	A	E	K	E	K	K	P	P	T	A	T	K	G	R	G	K	G		360		
AAA	GGC	AAG	AAA	GGC	AAA	GTG	AAA	GAG	GAA	GTG	GAG	GAC	CCC	CGG	AGC					1460		
K	G	K	K	K	G	K	V	K	E	E	V	E	E	T	D	P	R	K		380		

FIG. 3B

SEQ	ID NO:	3	2
CCT GAG CTG CTC AAC TCG TGG AAT GCC CTC GAG CAA GCC ATG CTG GAT GCT CTT GTC CTA L E L N W V N A L E Q A M L D A L V L	400	420	440
GAT CGG GTG GAC TTT GTA AAG CTC CTG ATT GAA AAC GGA GTG AAC ATG CAG CAT TTC CTC D R V D F V K L L I E N G V N M Q H F L	1580	1640	1700
ACC ATC CCG AGG CTG GAG CTA TAC AAC ACC AGA CTG GGC CCA AAC ACC CCT GAT CAC ATC AGC CTC ATT T I P R L E L Y N T R L G P P D Y H I S L I	440	460	460
CTG CTC CGG CGG GAT GTA AAG AAG AGC AAC CTT CCA CCT GAT 'TAC CAC ATC AGC CTC ATT L L V R D V K S N L P P D Y H I S L I	1640	1700	1760
GAT ATA GGA CTG GTG CTG GAG TAC CTC ATG CGC CGT GCC TAC CGC TGC AAC TAC ACT CGG D I G L V L E Y L M G G A Y R C N Y T R	480	480	480
AAA AGC TTC CGG ACT CTC TAC AAC AAC TAC TGT TTT CGC CCT AAG AGG GAA GAG CTC AGC AGA K S F R T L Y N N L F G P K R V E L S R	500	500	500
CAC ACA GTG TCC TGT GCC TCC CAG AGT AAC ATG TGG TTC CTT GAT GTG CTT CCC CAA AAG H T V S C A S Q S N M W F L D V L P Q K	520	520	520
CCC ACC TGT GCA GAA TGC AAC TCT TCA CCT CAC CTC CTC P T C A E C N S S P H L S Q T D I T P P	540	540	540
CTG CCC TGA CACCCAGTGCAGGGCTCTCTAGCTTTCACATGCCATTCAACATGCCCTCTAGCTTTCACATGCCCTCTAGCTT L P *	540	540	540
AGTGCAACCTGTAAGCATTGCTCTGCTCTCCCTCCCTACAATAGCCCCCTCTGGCCCCATGCCCTCTGCTCTCTC AGCCCGTTCTCTCCCTCCCTACTGATCACTGGCTCTCTGTTCAACCATAGCCAAAGGAACAAAGGAAGAACATCTTGTGCC ACAAAAGGTTTAGGGCTCCCTCTGTTCAACCTCAACTGATCACCTGAGTCACTGAGCTTCTGCTCTGCTCTGCTCT CAAGGCCCTCCCTCCACCCCTATCCCAATPAGACCC-TATTCCCTCAAAATCAAAGTAACTCTGCTCTGCTCTGCTCT TCTCTGCTCCAGGCTGTTAACCTCCAAATAATGTCAGATCTCTGGAAGGCTTCTGCTCTGCTCTGCTCTGCTCT AGAGAGCGAGACCTGACATGAAAGGGTIGACTCACTGGTGAATGTTGCTTCACTTAATTTAGTGTATGATCAAATATGACACTCT AGAAGGAGTTGTTCAACATGAAAGGGTIGACTCACTGGTGAATGTTGCTTCACTTAATTTAGTGTATGATCAAATATGACACTCT TTCCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCT ATTACTATATACCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCT (SEQ ID NO: 2)	2098	2178	2258
AGTGCAACCTGTAAGCATTGCTCTGCTCTCCCTCCCTACAATAGCCCCCTCTGGCCCCATGCCCTCTGCTCTCTC AGCCCGTTCTCTCCCTCCCTACTGATCACTGGCTCTCTGTTCAACCATAGCCAAAGGAACAAAGGAAGAACATCTTGTGCC ACAAAAGGTTTAGGGCTCCCTCTGTTCAACCTCAACTGATCACCTGAGTCACTGAGCTTCTGCTCTGCTCTGCTCT CAAGGCCCTCCCTCCACCCCTATCCCAATPAGACCC-TATTCCCTCAAAATCAAAGTAACTCTGCTCTGCTCTGCTCT TCTCTGCTCCAGGCTGTTAACCTCCAAATAATGTCAGATCTCTGGAAGGCTTCTGCTCTGCTCTGCTCTGCTCT AGAGAGCGAGACCTGACATGAAAGGGTIGACTCACTGGTGAATGTTGCTTCACTTAATTTAGTGTATGATCAAATATGACACTCT AGAAGGAGTTGTTCAACATGAAAGGGTIGACTCACTGGTGAATGTTGCTTCACTTAATTTAGTGTATGATCAAATATGACACTCT TTCCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCT ATTACTATATACCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCT (SEQ ID NO: 3)	2338	2418	2498
AGTGCAACCTGTAAGCATTGCTCTGCTCTCCCTCCCTACAATAGCCCCCTCTGGCCCCATGCCCTCTGCTCTCTC AGCCCGTTCTCTCCCTCCCTACTGATCACTGGCTCTCTGTTCAACCATAGCCAAAGGAACAAAGGAAGAACATCTTGTGCC ACAAAAGGTTTAGGGCTCCCTCTGTTCAACCTCAACTGATCACCTGAGTCACTGAGCTTCTGCTCTGCTCTGCTCT CAAGGCCCTCCCTCCACCCCTATCCCAATPAGACCC-TATTCCCTCAAAATCAAAGTAACTCTGCTCTGCTCTGCTCT TCTCTGCTCCAGGCTGTTAACCTCCAAATAATGTCAGATCTCTGGAAGGCTTCTGCTCTGCTCTGCTCTGCTCT AGAGAGCGAGACCTGACATGAAAGGGTIGACTCACTGGTGAATGTTGCTTCACTTAATTTAGTGTATGATCAAATATGACACTCT AGAAGGAGTTGTTCAACATGAAAGGGTIGACTCACTGGTGAATGTTGCTTCACTTAATTTAGTGTATGATCAAATATGACACTCT TTCCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCT ATTACTATATACCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCTGCTCT (SEQ ID NO: 2)	2578	2658	2730

FIG. 3C

ACTCATTATAGGGNTCGAGGGCCGGCCAGGTTGAGCTTCCATTCCACTGCTGGCAGGGTCAGA
 AATCTTGGATAGAGAAAACCTTGTGCAAAACGGGAATGTATCTTGTAAATTCTTAGCACGAAAGACTCTAACAGGGTGTG
 CTGTGGCCAGTTCACCAACCAGCATATCCCCCTCTGCCAAGTGCACACCCAGCAAATGAAGAGGAAAGCAAAACAG
 GTGGAGACTCAGCCTGAGAAATGGTGTGCAAGCACACCCAGAGCTACCCAACAGATTCCCTATGGAGTTCTTGAATT
 CCAAGGGTGGGGATATTCCAATAAAGCC

M	Y	I	R	V	S	Y	D	T	K	P	D	S	L	H	L	M	V	K	
ATG	TAT	ATC	CGT	GTA	TCC	TAT	GAC	ACC	AAG	CCA	GAC	TCA	CTG	CTC	CAT	CTC	ATG	GTG	AAA
D	W	Q	L	E	L	P	K	L	I	S	V	H	G	G	I	I	Q	N	F
GAT	TGG	CAG	CTG	GAA	CTC	CCC	AAG	CTC	TTA	ATA	TCT	GTG	CAT	GGA	GCG	CTC	CAG	AAC	'TTT'
E	M	Q	P	K	L	K	Q	V	F	G	K	G	L	I	K	A	A	M	T
GAG	ATG	CAG	CCC	AAG	CTG	AAA	CAA	GTC	TTT	GGG	AAA	GGC	CTG	ATC	AAG	GCT	GCT	ATG	ACC
T	G	A	W	I	F	T	G	G	V	S	T	G	V	I	S	H	V	G	D
ACC	GGG	GCC	TGG	ATC	TTC	ACC	GGG	GGT	GTC	AGC	ACA	GGT	GTT	ATC	AGC	(AC	GTA	GGG	GAT
A	L	K	D	H	S	S	K	S	R	G	R	V	C	A	I	G	I	A	P
GCC	TTG	AAA	GAC	CAC	TCC	TCC	AAG	TCC	AGA	GGC	CGG	GR	TGT	GCT	ATA	GGAA	ATT	GCT	CCA
W	G	I	V	E	N	K	E	D	L	V	G	K	D	V	T	R	V	Y	Q
TGG	GGC	ATC	GTG	GAG	AAT	AAG	GAA	GAC	CTG	GR	GGA	AAG	GAT	GTA	ACA	AGA	GTG	TAC	CAG
T	M	S	N	P	L	S	K	I,	S	V	L	N	N	S	H	T	H	F	I
ACC	ATG	TCC	AAC	CCT	CTA	AGT	AAG	CTC	TCT	GTG	CTC	AAC	AAC	TCC	CAC	ACC	TTC	ATC	
L	A	D	N	G	T	L	G	K	Y	G	A	E	V	K	L	R	R	L	L
CTG	GCT	GAC	AAT	GGC	ACC	CTG	GGC	AAG	TAT	GGC	GCC	GAG	GTG	AAG	CTG	CGA	AGG	CTG	CTG
E	K	H	I	S	L	Q	K	I	N	T	R	L	G	Q	G	V	P	L	V
GAA	AAG	CAC	ATC	TCC	CTC	CAG	AAG	ATC	AAC	ACA	AGA	CTG	GGG	CAG	GGC	GTG	CCC	CTC	GTG
G	L	V	V	E	G	G	P	N	V	V	S	I	V	L	E	Y	L	Q	E
GGT	CTC	GTG	GTG	GAG	GGG	GGC	CCT	AAC	GTG	GTG	TCC	ATC	GTC	TTC	GAA	TAC	CTG	CAA	GAA

FIG. 5A

E	P	P	I	P	V	V	I	C	D	G	S	G	R	A	S	D	I	L	S	
GAG	CCT	CCC	ATC	CCT	GTG	GTG	ATT	TGT	GAT	GGC	AGC	GGG	CGT	GCC	TGC	GAC	ATC	CTG	TCC	
F	A	H	K	Y	C	E	E	G	G	I	I	N	E	S	L	R	E	Q	L	
TTT	GCG	CAC	AAG	TAC	TGT	GAA	GAA	GGC	GGG	ATA	ATA	AAT	GAG	TCC	CTC	AGG	GAG	CAG	CTT	
L	V	T	I	Q	K	T	F	N	Y	N	K	A	Q	S	H	Q	L	T	A	
CTA	GTT	ACC	ATT	CAG	AAA	ACA	TTC	AAT	TAT	AAT	AAG	GCA	CAA	TCA	CAT	CAG	CTG	TTP	GCA	
I	I	M	E	C	M	K	K	E	L	V	T	V	F	R	M	G	S	E	280	
ATT	ATA	ATG	GAG	TGC	ATG	AAG	AAG	CTC	GTC	ACT	GTC	TTG	AGA	ATG	GGT	TCT	GAG		840	
G	Q	Q	D	I	E	M	A	I	L	T	A	L	L	K	G	T	N	V	300	
GGC	CAG	CAG	GAC	ATC	GAG	ATG	GCA	ATT	TTA	ACT	GCC	CTG	CTG	AAA	GGG	ACA	AAC	GTA	TCT	900
A	P	D	Q	L	S	L	A	L	A	W	N	R	V	D	I	A	R	S	320	
GCT	CCA	GAT	CAG	CTG	AGC	TGT	GCA	CTG	GCT	TGG	AAC	CGC	GTG	GAC	ATA	GCA	CGA	AGC	CAG	960
I	F	V	F	G	P	H	W	T	P	L	G	S	L	A	P	P	T	D	S	340
ATC	TTT	GTC	TTT	GGG	CCC	CAC	TGG	ACG	CCC	CTG	GGA	AGC	CTG	GCA	CCC	CCG	ACG	AGC		1020
K	A	T	E	K	E	K	P	P	M	A	T	T	K	G	G	R	G	K	360	
AAA	GCC	ACG	GAG	AAG	AAG	CCC	ATG	GCC	ACC	ACC	AAG	GGG	GGG	AGA	GGG	AAA			1080	
G	K	G	K	K	G	K	V	K	E	E	V	E	E	T	D	P	R		380	
GGG	AAA	GGC	AAG	AAG	AAA	GGG	AAA	GTG	AAA	GAG	GAA	GTG	GAG	GAA	ACT	GAC	CCC	CGG		1140
K	T	E	I	I	N	W	V	N	A	L	E	O	A	M	L	D	A	I,	400	

5B
FIG.

FIG. 5C

AAG	ATA	GAG	CTG	CTG	AAC	TGG	GTC	AAT	GCT	TTG	GAG	CAA	GCG	ATG	CTA	GAT	GCT	TTA	GTC
L	D	R	V	D	F	V	K	L	I	E	N	G	V	N	M	Q	H	F	420
TTA	GAT	CGT	GTC	GAC	TTT	GTC	AAG	CTC	CTG	ATT	GAA	AAC	GGA	GTG	AAC	ATG	CAA	CAC	TTT
L	T	I	P	R	L	E	E	L	Y	N	T	R	L	G	P	P	H	T	1260
CTG	ACC	ATT	CCG	AGG	CTG	GAG	GAG	CTP	TAT	AAC	ACA	AGA	CTG	GGT	CCA	CCA	AAC	ACA	CTT
H	L	L	V	R	D	V	K	K	S	N	L	P	P	D	Y	H	I	S	440
CAT	CTG	CTG	GTG	AGG	GAT	GTG	AAA	AAG	AGC	AAC	CTT	CCG	CCT	GAT	TAC	CAC	ATC	AGC	CTC
I	D	I	G	L	V	L	E	Y	L	W	G	G	A	Y	R	C	W	Y	460
ATA	GAC	ATC	GGG	CTC	GTG	CTG	GAG	TAC	CTC	ATG	GGA	GGA	GCC	TAC	CGC	TGC	AAC	TAC	1380
R	K	N	F	R	T	L	Y	N	N	L	F	G	P	K	R	P	K	A	500
CGG	AAA	AAC	TTT	CGG	ACC	CTT	TAC	AAC	AAC	TTG	TTT	GGA	CCA	AAG	AGG	CCT	AAA	GCT	1500
K	L	L	G	M	E	D	D	E	P	P	A	K	G	K	K	K	K	K	520
AAA	CTT	CTG	GGA	ATG	GAA	GAT	GAT	GAG	CCT	CCA	GCT	AAA	GGG	AAG	AAA	AAA	AAA	AAG	1560
K	K	E	E	I	D	I	D	V	D	D	P	A	V	S	R	F	Q	Y	540
AAA	AAG	GAG	GAA	GAG	ATC	GAC	ATT	GAT	GTG	GAC	GAC	CCT	GCC	GTG	AGT	CGG	TTC	CAG	1620
P	F	H	E	L	M	V	W	A	V	L	M	K	R	Q	K	N	A	V	560
CCC	TRC	CAC	GAG	CTG	ATG	GTG	TGG	GCA	GTG	CTG	ATG	AAA	CGC	CAG	AAA	ATN;	GCA	GTG	1680
L	W	Q	R	G	E	S	M	A	K	A	L	V	A	C	K	L	Y	K	580
CTC	TGG	CAG	CGA	GGG	GAA	GAG	AGC	ATG	GCC	AAG	GCC	CTG	GTG	GCC	TGC	AAG	CTC	TAC	1740
A	M	A	H	E	S	S	E	S	D	L	V	D	D	I	S	Q	D	L	600
GCC	ATG	GCC	CAC	GAG	TCC	TCC	GAG	AGT	GAT	CTG	GTG	GAT	GAC	ATC	TCC	CAG	GAC	TTG	1800
N	N	S	K	D	F	G	Q	L	A	L	E	L	D	Q	S	Y	K	H	620
AAC	AAT	TCC	AAA	GAC	TRC	GGC	CAG	CTT	GCT	TTG	GAG	TTA	GAC	CAG	TCC	TAT	AAG	CAT	1860

D	E	Q	I	A	M	K	L	T	Y	E	L	K	N	W	S	N	S	T		
GAC	GAG	CAG	ATC	GCT	ATG	AAA	CTC	CTG	ACC	TAC	GAG	CTG	AAA	AAC	TGG	AGC	AAC	TCG	ACC	
C	L	K	L	A	V	A	A	K	H	R	D	F	I	A	H	P	C	S	Q	
TGC	CTC	AAA	CTG	CTG	GCC	GTC	GCA	GCC	AAA	CAC	CGG	GAC	TTC	ATT	GCT	CAC	ACC	TGC	AGC	
M	L	L	T	D	M	W	M	G	R	L	R	M	R	K	N	P	G	L	K	
ATG	CTG	CTG	ACC	GAT	ATG	TGG	ATG	GGA	AGA	CTG	CGG	ATG	CGG	AAG	AAC	CCC	GGC	CTG	AAG	
V	I	M	G	I	L	L	P	P	T	I	L	F	L	E	F	R	T	Y	D	
GTR	ATC	ATG	GGG	ATT	CTT	CTA	CCC	CCC	ACC	ATC	TTG	TTT	TTG	GAA	TTT	CGC	ACA	TAT	GAT	
D	F	S	Y	Q	T	S	K	E	N	E	D	G	K	E	K	E	E	E	N	
GAT	TTC	TCG	TAT	CAA	ACA	TCC	AAG	GAA	AAC	GAG	GAT	GGC	AAA	GAA	AAA	GAA	GAG	GAA	ATT	
T	D	A	N	A	D	A	G	S	R	K	G	D	E	E	N	E	H	K	K	
ACG	GAT	GCA	AAT	GCA	GAT	GCT	GGC	TCA	AGA	AAG	GGG	GAT	GAG	GAG	AAC	GAG	CAT	AAA	AAA	
Q	R	I	I	P	I	G	T	K	I	C	K	F	Y	N	A	P	I	V	K	
CAA	AGA	ATT	ATC	CCC	ATC	GGA	ACA	AAA	ATC	TGT	AAA	TTC	TAT	AAC	GCG	CCC	ATP	GTC	AAG	
F	W	F	Y	T	I	S	Y	L	G	Y	L	L	F	N	Y	V	I	V	K	
TTC	TGG	TTT	TAC	ACA	ATA	TCA	TAC	TTG	GGC	TAC	CTG	CTG	TTT	AAC	TAC	GTC	ATC	CTG	2280	
V	R	M	D	G	W	P	S	L	Q	E	W	I	V	I	S	Y	I	V	S	
TGT	CGG	ATG	GAT	GGC	TGG	CCG	TCC	TCC	CTC	CAG	GAG	TGG	ATC	GTC	ATC	TCC	TAC	ATC	GTG	AGC
L	A	L	E	K	I	R	E	I	L	M	S	E	P	G	K	L	S	Q	K	
CTG	GCG	TTA	GAG	AAG	ATA	CGA	GAG	ATC	CTC	ATG	TCA	GAA	CCA	GGC	AAA	CTC	AGC	CAG	AAA	

FIG. 5D

FIG. 5E

I	K	V	W	L	Q	E	Y	W	N	I	T	D	L	V	A	I	S	T	F	840
ATC	AAA	GTT	TGG	CTT	CAG	GAG	TAC	TGG	AAC	ATC	ACA	GAT	CTC	GTG	GCC	ATF	TCC	ACA	TTC	2520
M	I	G	A	M	A	T	R	S	V	M	M	I	G	K	M	M	I	D	M	860
ATG	ATT	GGAA	GCA	ATG	GCC	ACG	AGA	TCT	GTG	ATG	ATG	ATT	GGAA	AAG	ATG	ATG	ATC	GAC	ATG	2580
L	Y	F	V	V	I	M	L	V	V	L	M	S	F	G	V	A	R	Q	A	880
CTG	TAC	TTT	GTG	GTC	ATC	ATG	CTG	GTC	GTG	CTC	ATG	AGT	RTC	GGAA	GTA	GCC	CGT	CAA	GCC	2640
I	L	H	P	E	E	K	P	S	W	K	L	A	R	N	I	F	Y	M	P	900
ATT	CTG	CAT	CCA	GAG	GAG	AAG	CCC	TCT	TGG	AAA	CTG	GCC	CGA	AAC	ATC	TTC	TAC	ATG	CCC	2700
Y	W	M	I	Y	G	E	V	F	A	D	Q	I	D	L	Y	A	M	E	I	920
TAC	TGG	ATG	ATC	TAT	GGAA	GAG	GTG	TTT	GCA	GAC	CAG	ATA	GAC	CTC	TAC	GCC	ATG	GAA	ATT	2760
N	P	P	C	G	E	N	L	Y	D	E	E	G	K	R	L	P	P	C	I	940
AAT	CCT	CCT	TGT	GGT	GAG	AAC	CTA	TAT	GAT	GAG	GAG	GGC	AAG	CGG	CTT	CCC	TGT	ATC	ATC	2820
P	G	A	W	L	T	P	A	L	M	A	C	Y	L	L	V	A	N	I	L	960
CCC	GGC	GGC	TGG	CTC	ACT	CCA	GCA	CTC	ATG	GCG	TGC	TAT	CTA	CTG	GTC	GCC	AAC	ATC	CTG	2880
L	V	N	L	L	I	A	V	F	N	N	T	F	F	E	V	K	S	I	S	980
CTG	GTG	AAC	CTG	CTG	ATT	GCT	GTG	TTC	AAC	ATT	ACC	TTC	TTT	GAA	GTA	AAA	TCA	ATA	TCC	2940
N	Q	V	W	K	F	Q	R	Y	Q	L	I	M	T	F	H	D	R	P	V	1000
AAC	CAG	GTG	TGG	AAG	TTC	CAG	CGA	TAT	CAG	CTG	ATT	ATG	ACA	TTT	CAT	GAC	AGG	CCA	GTC	3000
L	P	P	M	I	I	L	S	H	I	Y	I	I	I	M	R	L	S	G	1020	
CTG	CCC	CCA	CCG	ATG	ATC	ATT	TTA	AGC	CAC	ATC	TAC	ATC	ATC	ATF	ATG	CGT	CTC	AGC	GGC	3060
R	C	R	K	K	R	E	G	D	Q	E	E	R	D	R	G	L	K	L	F	1040
CGC	TGC	AGG	AAA	AAG	AGA	GAA	GGG	GAC	CAA	GAG	GAA	CGG	GAT	CGT	GGA	TTG	AAG	CTC	TTC	3120

FIG. 5F

L	S	D	E	E	L	K	R	L	H	E	F	E	E	Q	C	V	Q	E	H	1060	
CTT	AGC	GAC	GAG	GAG	CTA	AAG	AGG	CTG	CAT	GAG	TTC	GAG	GAG	CAG	TGC	GTC	GAG	GAC	CAC	3180	
F	R	E	K	E	D	E	Q	Q	S	S	S	D	E	R	I	R	V	T	S	1080	
TTC	CGG	GAG	AAG	GAG	GAT	GAG	CAG	CAG	TCC	AGC	GAC	GAG	CGC	ATC	CGG	GTC	ACT	TCT	3240		
E	R	V	E	N	M	S	H	R	L	E	E	I	N	E	R	E	P	P	M	1100	
GAA	AGA	GTT	GAA	ATT	ATG	TCA	ATG	AGG	TTG	GAA	GAA	ATC	AAT	GAA	GAA	ACT	TTT	ATG	3300		
K	T	S	L	Q	T	V	D	L	R	L	A	Q	L	E	E	L	S	N	R	1120	
AAA	ACT	TCC	CTG	CAG	ACT	GTT	GAC	CTT	CGA	CTT	GCT	CAG	CTA	GAA	GAA	TTA	TCT	AAC	AGA	3360	
M	V	N	A	I	E	N	L	A	G	I	D	R	S	D	L	I	Q	A	R	1140	
ATG	GTG	AAT	GCT	CTT	GAA	AAT	CTT	GCG	GGA	ATC	GAC	AGG	TCT	GAC	CTG	ATC	CAG	GCA	CGG	3420	
S	R	A	S	S	E	C	E	A	T	Y	L	L	R	Q	S	S	I	N	S	1160	
TCC	CGG	GCT	TCT	TCT	GAA	TGT	GAG	GCA	ACG	TAT	CTT	CTC	CGG	CAA	AGC	ATC	AAT	AGC	3480		
A	D	G	Y	S	L	Y	R	Y	H	F	N	G	E	E	L	L	F	E	D	1180	
GCT	GAT	GGC	TAC	AGC	TTG	TAT	CGA	TAT	CAT	TTT	AAC	GGG	GAA	GAG	TTA	TTA	TTT	GAG	GAT	3540	
T	S	L	S	T	S	P	G	T	G	V	R	K	K	T	C	S	F	R	I	1200	
ACA	TCT	CTC	TCC	ACG	TCA	CCA	GGG	ACA	GGG	ACA	GGG	AGG	AAA	AAA	ACC	TGT	TCC	TTC	CGT	ATA	3600
K	E	E	K	D	V	K	T	H	L	V	P	E	C	Q	N	S	L	H	L	1220	
AAG	GAA	GAG	AAG	GAC	GTG	AAA	ACG	CAC	CTA	GTC	CCA	GAA	TGT	CAG	AAC	AGT	CCT	CAC	CTT	3660	
S	L	G	T	S	T	S	A	T	P	D	G	S	H	L	A	V	D	D	L	1240	
TCA	CTG	GGC	ACA	AGC	ACA	TCA	GCA	ACC	CCA	GAT	GGC	AGT	CAC	CTT	GCA	GAT	GAC	TTA	3720		

FIG. 5G

(SEQ ID NO: 6)

TTCTAAACATTTCCCTTTAACAGTCAGAACCAACTAATGGGTGTATCTTGGCCATCCTAAACATCCATT

4991

A E E K K V K E K A S T E T E C **(SEQ ID NO: 7)** 1497
GCA GAA AAA ARG GTT ARG AAA GAG ACT TCC ACA GAA ACT GAA TAG TGC TAG TCTGTT

4440

L D R S G H A S S V S L V I V S G M T 1480
TTA GAC AGA TCT GGA CAT GCC AGT AGT GTA AGC AGC TTA GTA ATT GTG TCT CGA ATG ACA

4380

S L R S K S L H G H P R N V K S I Q G K 1460
TCT CTC AGG TCA AAA AGT TTA CAT CCT GTG AAG CAA ACT GTG AAA TCC ATT CAG CGA AAG

4260

D R N G M E N L L S V K P D Q T L G F P 1440
GAC AGA AAT GGG ATG GAA AAC TTA CTG TCT GTG AAG CCA GAT CAA ACT TTG CGA ATT CCA

4320

D E H V A E A I P R I P R L S L P I P 1420
TAC ATT GTG TCG GAA GCT GCA GTG CAA GCT GAG CAA AAA GAG CAG TTT GCA GAT ATG CAA

4200

Y I V S E A A V Q A E Q K E Q F A D M Q 1380
ACG ACG GAA TGG CAA TGC CAA GTT CAA ARG ATC ACG CGC TCT CAT AGC ACA GAT ATP CCT

4140

T T E W Q C Q V Q D V E Y S S I T D Q Q L 1360
AAG CTG GTC GGT GGG GTT AAC CAG GAT GTA GAG TAC AGT TCA ATC ACG GAC UAG CAA TTG

4080

K L V G G V N Q D V E Y S S I T D Q Q L 1340
KAG ACG ATC AAT GCT TGT AAA ACA ATG AAG TCC AGA AGC TTC GTC TAT TCC UGG GGA AGA

4020

E T I N A C K T M K S R S F V Y S R G R 1320
GAA ACG ATC AAT GCT TGT AAA ACA ATG AAG TCC AGA AGC TTC GTC TAT TCC UGG GGA AGA

3960

I E G T I S Y P L E E T K I T R Y F P D 1300
ATA GAA GGC ACT ATT TCC TAT CCC CTG GAA ACC AAA ATT ACA CGC TAT TTC CCC GAT

3900

R Q T D S K K E E T I S P S L N K T D V 1280
AGA CAG ACA GAC TCT AAA AAA GAA GAA ACT ATT TCC CCA AGT TTA ATT AAA ACA GAT GTG

3840

K N A E E S K L G P D I G I S K E D D E 1260
AAG AAC GCT GAA GAG TCA AAA TTA GGT CCA GAT ATT GGG ATT TCA AAG GAA GAT GTG GAA

3780

ACTCATTATAAGGGNTCGAGGGCCGGGGGGGAGGTTTGAGGTGCCCCCTCTCCACTGCTGTGGCAGGGTCA
 ATCTCTGGATAGAGAAAACCCTTTGCAAAACGGGAATGTATCTTGTAAATTCCTTGTAAAGACTCTAACAGGTGTTG
 CTGTGGCCCAAGCTCACCAACCAGCATATCCCCCTCTGCCAAGTGCACACCCAGCAAAATGAAGAGGAAGACAG
 GTGGAGACTCAGCCTGAGAAATGGTCTGTCAGCTAACAGATCCTATGGAGTTCTTGAAATT
 CCAGGGTGGGGATATTCCAATAAGCC

M	Y	I	R	V	S	Y	D	T	K	P	D	S	L	H	L	M	V	K		
AAT	TAT	ATC	CGT	GTA	TCC	TAT	GAC	ACC	AAG	CCA	GAC	TCA	CTG	CTC	CAT	CTC	ATG	GTG	AAA	
D	W	Q	I.	E	L.	P	K	L.	I.	S	V	H	G	G	I.	Q	H	F	40	
GAT	TGG	CAG	CTG	GAA	CTC	CCC	AAG	CTC	TCA	ATA	TCT	GTG	CAT	GGA	GGC	CTC	CAG	AAC	TTP	120
E	M	Q	P	K	L	K	Q	V	F	G	K	G	L	I	K	A	A	N	60	
GAG	ATG	CAG	CCC	AAG	CTG	AAA	CAA	GTC	TTT	GGG	AAA	GGC	CTG	ATC	AAG	GCT	GCT	ATG	ACC	180
T	G	A	W	I	F	T	G	G	V	S	T	G	V	I	S	H	V	G	80	
ACC	GGG	GCC	TGG	ATC	TTC	ACC	GGG	GGT	GTC	AGC	ACA	GGT	GTT	ATC	AGC	CAC	GTA	GGG	GAT	240
A	L	K	D	H	S	S	K	S	R	G	R	V	C	A	I	G	I	A	100	
GCC	TTG	AAA	GAC	CAC	TCC	TCC	AAG	TCC	AGA	GGC	CGG	GTT	TGT	GCT	ATA	GGA	ATT	GCT	CCA	300
W	G	I	V	E	N	K	E	D	L	V	G	K	D	V	T	R	V	Y	Q	120
TGG	GGC	ATC	GTG	GAG	AAT	AAG	GAA	GAC	CTG	GTG	GGG	AAG	GAT	GTA	ACA	AGA	GTG	TAC	CAG	360
T	M	S	N	P	L	S	K	L	S	V	L	N	N	S	H	T	H	F	I	140
ACC	ATG	TCC	AAC	CCT	CTA	AGT	AAG	CTC	TCT	GTG	CTC	AAC	AAC	TCC	CAC	ACC	TTC	ATC	420	
L	A	D	N	G	T	L	G	K	Y	G	A	E	V	K	L	R	R	L	160	
CTG	GCT	GAC	AAT	GGC	ACC	CTG	GGC	AAG	TAT	GGC	GCC	GAG	GTG	AAG	CTG	CGA	AGG	CTG	CTG	480
E	K	H	I	S	L	Q	K	I	N	T	R	L	G	Q	G	V	P	L	V	180
GAA	AAG	CAC	ATC	TCC	CTC	CAG	AAG	ATC	AAC	ACA	AGA	CTG	GGG	CAG	GGC	GTG	CCC	(TC)	GTG	540
G	L	V	V	E	G	G	P	N	V	V	S	I	V	L	E	Y	L	Q	E	200
GGT	CTC	GTG	GAG	GGG	GGC	CCT	AAC	GTC	GTG	GTG	TCC	ATC	GTC	TTG	GAA	TAC	CTG	CAA	GAA	600

FIG. 6A

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6GB

FIG. 6C

AAG	ATA	GAG	CTG	CTG	AAC	TGG	GTC	AAT	GCT	TTG	GAG	CAA	GCG	ATG	CTA	GAT	GCT	TTA	GTC	1200	
L	D	R	V	D	F	V	K	L	I	E	N	G	V	N	M	Q	H	F		420	
TTA	GAT	CGT	GTC	GAC	TTT	GTG	AAG	CTC	CTG	ATT	GAA	AAC	GGG	GTG	AAC	ATG	CAA	CAC	TTT		1260
L	T	I	P	R	L	E	E	L	Y	N	T	R	L	G	P	P	I	T	L		440
CTG	ACC	ATT	CCG	AGG	CTG	GAG	CTT	TAT	AAC	ACA	AGA	CTG	GGT	CCA	AAC	ACA	CTT				1320
H	L	L	V	R	D	V	K	K	S	N	L	P	P	D	Y	H	I	S	L		460
CAT	CTG	CTG	GTG	AGG	GAT	GTC	AAA	AAG	AGC	AAC	CTT	CCG	CCP	GAT	TAC	CAC	ATC	AGC	CTC		1380
I	D	T	G	L	V	L	E	Y	L	M	G	G	A	Y	R	C	N	Y	T		480
ATA	GAC	ATC	GGG	CTC	GTG	CTG	GAG	TAC	CTC	ATG	GGG	GGA	GCC	TAC	CGC	TGC	AAC	TAC	ACP		1440
R	K	N	F	R	T	L	Y	N	N	L	F	G	P	K	R	P	K	A	L		500
CGG	AAA	AAC	TTT	CGG	ACC	CTT	TAC	AAC	TG	TTG	TTT	GGG	CCA	AAG	AGG	CCT	AAA	GCT	CTT		1500
K	L	L	G	M	E	D	D	E	P	P	A	K	G	K	K	K	K	K	K		520
AAA	CTT	CTG	GGA	ATG	GAA	GAT	GAT	GAG	CCT	CCA	GCT	AAA	GGG	AAG	AAA	AAA	AAA	AAA	AAG		1560
K	K	E	E	E	I	D	I	D	V	D	D	P	A	V	S	R	F	Q	Y		540
AAA	AAG	GAG	GAA	GAG	ATC	GAC	ATT	GAT	GTG	GAC	GAC	CCT	GCC	GTG	AGT	CGG	TTC	CAG	TAT		1620
P	F	H	E	L	M	V	W	A	V	L	M	K	R	Q	K	M	A	V	F		560
CCC	TTC	CAC	GAG	CTG	ATG	GTG	TGG	GCA	GTG	CTG	ATG	AAA	CGC	CAG	AAA	ATG	GCA	GTG	TTC		1680
L	W	Q	R	G	E	E	S	M	A	K	A	L	V	A	C	K	L	Y	K		580
CTC	TGG	CAG	CGA	GGG	GAA	GAG	AGC	ATG	GCC	AAG	GGC	CTG	GRG	GCC	TGC	AAG	CTC	TAC	AAG		1740
A	M	A	H	E	S	S	E	S	D	L	V	D	D	I	S	Q	D	L	D		600
GCC	ATG	GCC	CAC	GAG	TCC	TCC	GAG	AGT	GAT	CTG	GTG	GAT	GAC	ATC	TCC	CAG	GAC	TTG	GAT		1800
N	N	S	K	D	F	G	Q	L	A	L	E	L	L	D	Q	S	Y	K	H		620
AAC	AAT	TCC	AAA	GAC	TTC	GGC	CAG	CRT	GCT	TTG	GAG	TTA	GAC	CAG	TCC	TAT	AAG	CAT		1860	

FIG. 6D

D	E	Q	I	A	M	K	L	L	T	Y	E	L	K	N	W	S	N	S	T
GAC	GAG	CAG	ATC	GCT	ATG	AAA	CTC	CTG	ACC	TAC	GAG	CTG	AAA	AAC	TGG	AGC	AAC	TCG	ACC
C	L	K	L	A	V	A	A	K	H	R	D	F	I	A	H	T	C	S	Q
TGC	CTC	AAA	CTG	GCC	GTG	GCA	GCC	AAA	CAC	CGG	GAC	TTC	ATT	GCT	CAC	ACC	TGC	AGC	CAG
M	L	L	T	D	M	W	M	G	R	L	R	M	R	K	N	P	G	L	K
ATG	CTG	CTG	ACC	GAT	ATG	TGG	ATG	GGG	AGA	CTG	CGG	ATG	CGG	AAG	AAC	CCC	GGC	CTG	AAG
V	I	M	G	I	L	L	P	P	T	I	L	F	L	E	F	R	T	Y	D
GTT	ATC	ATG	GGG	ATT	CTT	CTA	CCC	CCC	ACC	ATC	TTG	TTG	GAA	TTT	CGC	ACA	TAT	GAT	2100
D	F	S	Y	Q	T	S	K	E	N	E	D	G	K	E	K	E	E	E	N
GAT	TTC	TCG	TAT	CAA	ACA	TCC	AAG	GAA	AAC	GAG	GAT	GGC	AAA	GAA	AAA	GAG	GAA	ATA	2160
T	D	A	N	A	D	A	G	S	R	K	G	D	E	E	N	E	H	K	K
ACG	GAT	GCA	ATT	GCA	GAT	GCT	GGC	TCA	AGA	AAG	GGG	GAT	GAG	GAG	AAC	GAG	CAT	AAA	AAA
Q	R	I	I	P	I	G	T	K	I	C	K	F	Y	N	A	P	I	V	K
CAA	AGA	ATT	ATC	CCC	ATC	GGA	ACA	AAA	ATC	TGT	AAA	TTC	TAT	AAC	GCG	CCC	ATC	GTC	AAG
F	W	F	Y	T	I	S	Y	L	G	Y	L	L	L	F	N	Y	V	I	L
TTC	TGG	TTT	TAC	ACA	ATA	TCA	TAC	TTG	GGC	TAC	CTG	CTG	CTG	TTT	AAC	TAC	GTC	ATC	CTG
V	R	M	D	G	W	P	S	L	Q	E	W	I	V	I	S	Y	I	V	S
GTG	CGG	ATG	GAT	GGC	TGG	CCG	TCC	CTC	CAG	GAG	TGG	ATC	GTC	ATC	TCC	TAC	ATC	GTC	AGC
L	A	L	E	K	I	R	E	I	L	M	S	E	P	G	K	L	S	Q	K
CTG	GCG	TTA	GAG	AAG	ATA	CGA	GAG	ATC	CTC	ATG	TCA	GAA	CCA	GGC	AAA	CTC	AGC	CAG	AAA

I	K	V	W	L	Q	E	Y	W	N	I	T	D	L	V	A	I	S	T	F	840
ATC	AAA	GTT	TGG	CTT	CAG	GAG	TAC	TGG	AAC	ATC	ACA	GAT	CTC	GTG	GCC	ATT	TCC	ACA	TTC	2520
M	I	G	A	I	L	R	L	Q	N	Q	P	Y	M	G	Y	G	R	V	I	860
ATG	ATT	GGA	GCA	ATT	CTT	CGC	CTA	CAG	AAC	CAG	CCC	TAC	ATG	GGC	TAT	GCG	CGG	GTG	ATC	2580
Y	C	V	D	I	I	F	W	Y	I	R	V	L	D	I	F	G	V	N	K	880
TAC	TGT	GTG	GAT	ATC	ATC	TTC	TGG	TAC	ATC	CGT	GTC	CTG	GAC	ATC	TTT	GGT	GTC	AAC	AG	2640
Y	L	G	P	Y	V	M	M	I	G	K	M	M	I	D	M	L	Y	F	V	900
TAT	CTG	GGG	CCA	TAC	GTG	ATG	ATG	ATT	GGA	AAG	ATG	ATC	GAC	ATG	CTG	TAC	TTT	GTG		2700
V	I	M	L	V	V	L	M	S	F	G	V	A	R	Q	A	I	L	H	P	920
GTC	ATC	ATG	CTG	GTC	GTG	CTC	ATG	AGT	TTC	GGA	GTA	GCC	CGT	CAA	GCC	ATT	CTG	CAT	CCA	2760
E	E	K	P	S	W	K	I,	A	R	N	I	F	Y	N	P	Y	W	M	I	940
GAG	GAG	AAG	CCC	TCT	TGG	AAA	CTG	GCC	CGA	AAC	ATC	TTC	TAC	ATU	CCC	TAC	TGG	ATG	ATC	2820
Y	G	E	V	F	A	D	Q	I	D	L	Y	A	N	E	I	N	P	P	C	960
TAT	GGA	GAG	GTG	TTT	GCA	GAC	CAG	ATA	GAC	CTC	TAC	GCC	ATG	GAA	ATT	ATC	CCC	GGC	TGG	2880
G	E	N	L	Y	D	E	E	G	K	R	L	P	P	C	I	P	G	A	W	980
GGT	GAG	AAC	CTA	TAT	GAT	GAG	GAG	GGC	AAG	CGG	CTT	CCC	TGT	ATC	CCC	GGC	GGC	TGG		2940
L	T	P	A	L	M	A	C	Y	L	L	V	A	N	I	L	L	V	N	L	1000
CTC	ACT	CCA	GCA	CTC	ATG	GCG	TGC	TAT	CTA	CTG	GTC	GCC	AAC	ATC	CTG	CTG	GTG	AAC	CTG	3000
L	I	A	V	F	N	N	T	F	F	E	V	K	S	I	S	N	Q	V	W	1020
CTG	ATT	GCT	GTG	TTC	AAC	ATT	ACT	TTC	TTT	GAA	GTA	AAA	TCA	ATA	TCC	AAC	CAG	GTG	TGG	3060
K	F	Q	R	Y	Q	L	I	M	T	F	H	D	R	P	V	L	P	P	1040	
AAG	TTC	CAG	CGA	TAT	CAG	CTG	ATT	ATG	ACA	TTT	CAT	GAC	AGG	CCA	GTC	CTG	CCC	CCA	CCG	3120

FIG. 6E

THE HISTORY OF THE CHINESE IN AMERICA

M	I	I	L	S	H	I	Y	I	I	M	R	L	S	G	R	C	R	K
ATG	ATC	ATT	TTA	AGC	CAC	ATC	TAC	ATC	ATT	ATG	CGT	CTC	AGC	GGC	CGC	TGC	AGG	AAA
K	R	E	G	D	Q	E	E	R	D	R	G	L	K	L	F	L	S	D
AAG	AGA	GAA	GGG	GAC	CAA	GAG	GAA	CGG	GAT	CGT	GGG	TTG	AAG	CTC	TTC	CTT	AGC	GAG
E	L	K	R	L	H	E	F	E	E	Q	C	V	Q	E	H	F	R	E
GAG	CTA	AAG	AGG	CTG	CAT	GAG	TTC	GAG	CAG	TGC	GAG	CAC	TTC	CGG	GAG	AAG		
E	D	E	Q	Q	S	S	S	D	E	R	I	R	V	T	S	E	R	V
GAG	GAT	GAG	CAG	CAG	TCG	TCC	AGC	GAC	GAG	CGC	ATC	CGG	GTC	ACT	TCT	GAA	AGA	GAA
N	M	S	M	R	L	E	E	I	N	E	R	E	T	F	M	K	T	S
AAT	ATG	TCA	ATG	AGG	TTG	GAA	ATC	ATT	GAA	GAA	ACT	TTT	ATG	AAA	ACT	TCC	CTG	
Q	T	V	D	L	R	L	A	Q	L	E	E	I,	S	N	R	H	V	N
CAG	ACT	GTT	GAC	CTT	CGA	CTT	GCT	CAG	CTA	GAA	GAA	TTA	TCT	AAC	AGA	ATG	GTG	ATT
L	E	N	L	A	G	I	D	R	S	D	L	I	Q	A	R	S	R	A
CTT	GAA	AAT	CTT	GCG	GGA	ATC	GAC	AGG	TCT	GAC	CTG	ATC	CAG	GCA	CGG	TCC	CGG	GCT
S	E	C	E	A	T	Y	L	L	R	Q	S	S	I	N	S	A	D	G
TCT	GAA	TGT	GAG	GCA	ACG	TAT	CTT	CTC	CGG	CAA	AGC	AGC	ATC	AAT	AGC	GCT	GAT	GCG
S	L	Y	R	Y	H	F	N	G	E	E	L	L	F	E	D	T	S	L
AGC	TGT	TAT	CGA	TAT	TTT	AAC	GGG	AAA	GAA	GAG	TTA	TTT	GAG	GAT	ACA	TCT	CTC	TCC
T	S	P	G	T	G	V	R	K	K	T	C	S	F	R	I	K	E	E
AGG	AGG	GGG	AGG	GGG	AGG	AAA	AAA	AAA	ACC	TGT	TCC	TTC	CGT	ATA	AAG	GAA	GAG	AAG

FIG. 6F

D	V	K	T	H	L	V	P	E	C	Q	N	S	L	H	L	S	L	G	T
GAC	GTC	AAA	ACG	CAC	CTA	GTC	CCA	GAA	TGT	CAG	AAC	AGT	CTT	CAC	CTT	TCA	CTG	GGC	ACA
S	T	S	A	T	P	D	G	S	H	L	A	V	D	D	L	K	H	A	E
AGC	ACA	TCA	GCA	ACC	CCA	GAT	GGC	AGT	CAC	CTT	GCA	GTA	GAT	GAC	TTA	AAG	AAC	GCT	GAA
E	S	K	L	G	P	D	I	G	I	S	K	E	D	D	E	R	Q	T	D
GAG	TCA	AAA	TTA	GGT	CCA	GAT	ATT	GGG	ATT	TCA	AAG	GAA	GAT	GAT	GAA	AGA	CAG	ACA	GAC
S	K	K	E	E	T	I	S	P	S	L	N	K	T	D	V	1	H	G	Q
TCT	AAA	AAA	GAA	GAA	ACT	ATT	TCC	CCA	AGT	TTA	AAT	AAA	ACA	GAT	GTG	ATA	CAT	GGA	CAG
D	K	S	D	V	Q	N	T	Q	L	T	V	E	T	T	N	I	E	G	T
GAC	AAA	TCA	GAT	GTT	CAA	AAC	ACT	CAG	CTA	ACA	GTG	GAA	ACG	ACA	ATT	ATA	GAA	GGC	ACT
I	S	Y	P	L	E	E	T	K	I	T	R	Y	F	P	D	E	T	I	N
ATP	TCC	TAT	CCC	CTG	GAA	GAA	ACC	AAA	ATT	ACA	CGC	TAT	TTC	CCC	GAT	GAA	ACG	ATC	AT
A	C	K	T	M	K	S	R	S	F	V	Y	S	R	G	R	K	L	V	G
GCT	TGT	AAA	ACA	ATG	AAG	TCC	AGA	AGC	TTC	GTC	TAT	TCC	CGG	GGG	AGA	AAG	CTG	GTC	GGT
G	V	N	Q	D	V	E	Y	S	S	I	T	D	Q	Q	L	T	E	W	
GGG	GTT	AAC	CAG	GAT	GTA	GAG	TAC	AGT	TCA	ATC	ACG	GAC	CAG	CAA	TTG	ACG	ACG	GAA	TGG
Q	C	Q	V	Q	K	L	T	R	S	H	S	T	D	I	P	Y	I	V	S
CAA	TGC	CAA	GTT	CAA	AAG	ATC	ACG	CGC	TCT	CAT	AGC	ACA	GAT	ATT	CCT	TAC	ATT	GTG	TGC
E	A	A	V	Q	A	E	Q	K	E	Q	F	A	D	M	Q	D	E	H	H
CAA	GCT	GCA	GTC	CAA	GCT	GAG	CAA	AAA	GAG	CAG	TTT	GCA	GAT	ATG	CAA	GAT	CAA	GCA	CAC

FIG. 6G

V	A	E	A	I	P	R	I	P	R	L	S	L	T	I	T	D	R	N	G	
GTC	GCT	GAA	GCA	ATT	CCT	CCT	CGA	ATC	CCT	CGC	TTG	TCC	CTA	ACC	ATT	ACT	GAC	AGA	AAT	GGG
M	E	N	L	L	S	V	K	P	D	Q	T	L	G	F	P	S	L	R	S	1460 4380
ATG	GAA	AAC	TTA	CTG	TCT	GTG	AAG	CCA	GAT	CAA	ACT	TTG	GGA	TTC	CCA	TCT	CTC	AGG	TCA	1480 4440
K	S	L	H	G	H	P	R	N	V	K	S	I	Q	G	K	L	D	R	S	1500 4500
AAA	AGT	TTA	CAT	GGA	CAT	CCT	AGG	ATT	GTG	AAA	TCC	ATT	CAG	GGA	AAG	TTA	GAC	AGA	TCT	1520 4560
G	H	A	S	S	V	S	S	L	V	I	V	S	G	M	T	A	E	E	K	
GGA	CAT	GCC	AGT	AGT	GTA	AGC	AGC	TTA	GTA	ATT	GTG	TCT	GGA	ATG	ACA	GCA	GAA	GAA	AAA	
K	V	K	K	E	K	A	S	T	E	T	E	C	*	(SEQ ID NO: 9)						1533 4599
AAG	GTT	AAG	AAA	GAG	AAA	GCT	TCC	ACA	GAA	ACT	GAA	TGC	TAG	TCT	GTT	TAA	TTT			
TCCCC	TTAACAGTCAGAAACCCACTAAATGGGTGTATCTGGCCATCCTAAACACATMUCCAATTCCCTAAAAACATT																			

FIG. 6H
(SEQ ID NO: 8)

TTTTTTAACAGTCAGAAACCCACTAAATGGGTGTATCTGGCCATCCTAAACACATMUCCAATTCCCTAAAAACATT